

Satellite Frequency Licenses and Authorizations
Based upon 2004 10-K Filings and Recent FCC Authorizations
Prepared July 18, 2005

- **EchoStar Frequency Licenses & Authorizations**

Ku BSS DBS licenses:

- 11 frequencies at 61.5° (not full CONUS)
(with another 11 at 61.5° being purchased from Cablevision)
- 29 frequencies at 110°
- 21 frequencies at 119°
- 32 frequencies at 148° (not full CONUS)
- 3 frequencies at 157° (not full CONUS) (winning bidder for another 29 frequencies at 157°, but not yet licensed)
- Total: 136 frequencies

Ka licenses:

- 32 frequencies at 97°
- 32 frequencies at 113°
- 32 frequencies at 117°
- 32 frequencies at 121° (but limited to 500 MHz)
- Total: 128 frequencies

Ku FSS licenses:

- Extended license at 109° (32 frequencies)

Other:

- Leases for the following (from SES Americom):
 - 24 frequencies at 121° Ku FSS
 - 24 frequencies at 105° Ku FSS
 - 24 frequencies at 85° Ku FSS
- In March 2002, filed for FCC's Expansion DBS Spectrum to be allocated commencing in 2007
- DirecTV and SES Americom (to use 105.5 licensed to Gibraltar) proposals to allow 4.5 degree spacing in the Ku BSS DBS band
- Recently received FCC authorization to use a DBS international slot licensed to Mexico (77°) with filings pending for use of the Canadian DBS slot at 129° and FSS slot at 118.7°

- **DIRECTV Frequency Licenses & Authorizations**

Ku BSS DBS Frequencies:

- 32 frequencies at 101°
- 3 frequencies at 110°

- 11 frequencies at 119°
- Total: 46 frequencies

Ka licenses:

- 32 frequencies at 99°
- 32 frequencies at 103°
- Total: 64 frequencies

Other:

- Lease and international authorization from the FCC and Canada for 72.5° Ku BSS (presumably 32 frequencies, but unclear)
- Lease for 95° Ku FSS, but no details